

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 10/611,480 Confirmation No. 3306
Applicant: Sean Michael Malolepszy et al.
Filed: July 1, 2003
TC/A.U.: 3729
Examiner: Arbes, Carl J
Customer No.: 23494
Docket: TI-33434.1

EX PARTE QUAYLE AMENDMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Responsive to the Office action of February 22, 2006, applicants amend the application as follows:

Amendments to the Specification begins on page 2 of this paper.

Amendments to the Claims, as reflected in the listing of claims, begin on page 3 of this paper.

Remarks/Arguments begin on page 6 of this paper.

Appl. No. 10/611,480
Amdt. dated June 21, 2006
Reply to Office action of Feb. 22, 2006

Amendments to the Specification:

Please replace the title of this application with the following new title:

Wirebonder to Bond an IC Chip to a Substrate

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims: 1.

- 1-16. (canceled)
17. (original) A wirebonder adapted to wire bond an integrated circuit chip to a substrate, the substrate having formed thereon a plurality of conductive traces, at least one of the conductive traces having a bond region containing a bond surface, the machine comprising:
 - a support structure positioning device;
 - a conditioning device positioned adjacent the support structure positioning device, the conditioning device and the support structure being movable relative to one another in a direction normal to the support structure, the conditioning device comprising:
 - a member;
 - a raised boss on the member, the raised boss being configured to compress bond surfaces on a top surface of the support structure when the conditioning device is engaged with the support structure;
 - a cavity located so as to receive therein an integrated circuit chip mounted on said support structure when the flexible member is engaged with the support structure; and
 - a bond wire capillary positioned over the circuit board clamp.
18. (original) The machine of claim 17 further comprising a heater connected to the conditioning device.

19. (original) The machine of claim 17 further comprising a vibrator connected to the conditioning device.

20. (original) The machine of claim 17 further comprising a servo motor attached to the conditioning device, the servo motor moving the conditioning device relative the support structure positioning device.

Remarks/Arguments

Applicants thank Examiner Arbes for his careful examination of this application and for allowing claims 17-20. In response to the Office Action of February 22, 2006, applicants amend this application as follows:

1. The title of this application is changed to -- Wirebonder to Bond an IC Chip to a Substrate.
2. Claims 1-16 are canceled from this examination.

Applicants respectfully submit that as amended, this application is in allowable form.

Respectfully submitted,
/Yingsheng Tung/

Texas Instruments Incorporated
P. O. Box 655474 MS 3999
Dallas, TX 75264
(972) 917-5355
(972) 917-4418 (fax)

Yingsheng Tung
Reg. No. 52,305
Attorney for Applicants